

Amendments to the Claims:

1. (Currently Amended) A method of representing a document written in a markup language on a mobile terminal ~~an~~ apparatus, the method comprising:

providing a virtual node tree describing the structure of the data types in the document but not containing actual document data, each one of the nodes in the virtual node tree respectively corresponding to one element of a specific data type in the document;

for each one of the nodes in the virtual node tree, providing a data array including information identifying the relationship of the node to other nodes in the virtual node tree and a reference indicating the location of data corresponding to the node; and

obtaining, by a set of software components in the ~~mobile terminal~~ apparatus, the data corresponding to the nodes using the reference included in the data array.

2. (Original) The method recited in claim 1, wherein the data in the document is stored in a document block in memory.

3. (Original) The method recited in claim 2, wherein the document is written in XML or a variation of XML.

4. (Original) The method recited in claim 1, wherein the data arrays further include a flags field.

5. (Original) The method recited in claim 4, wherein a flag in the flags field indicates whether or not the node is the last sibling in a list of siblings.

6. (Original) The method recited in claim 4, wherein a flag in the flags field identifies the type of the node data.

7. (Original) The method recited in claim 1, wherein the relationship of the nodes to the other nodes in the virtual node tree is indicated by a child index and a sibling index in the

data array.

8. (Original) The method recited in claim 1, wherein the data arrays have a fixed length.

9. (Original) The method recited in claim 1, wherein the data arrays have a variable length.

10. (Currently Amended) ~~A mobile phone~~ An apparatus comprising:
a set of software components;
a memory connected to the set of software components; and
a display;
~~wherein at least one of the set of software components carries~~ processor configured to
carry out a method of representing a document written in a markup language and rendering the
document on the a display, said method comprising:

providing a virtual node tree describing the structure of the data types in the document
but not containing actual document data, each one of the nodes in the virtual node tree
respectively corresponding to one element of a specific data type in the document;

for each one of the nodes in the virtual node tree, providing a data array including
information identifying the relationship of the node to other nodes in the virtual node tree and a
reference to the location of the data corresponding to the node; and

obtaining the data corresponding to the nodes using the references included in the data
array.

11. (Currently Amended) ~~The mobile phone apparatus~~ recited in claim 10, further
comprising wherein the processor is configured to operate a browser or other software
application ~~adapted~~ configured to receive said document and render said document on said
display.

12. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim ~~10~~ 11, wherein the processor being configured to operate a browser or other software application includes being configured to operate the browser, and wherein the document is an XML document and the browser is an XML browser.

13. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the data in the document is stored in a document block in said memory.

14. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the data arrays further include a flags field.

15. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 14, wherein a flag in the flags field indicates whether or not the node is the last sibling in a list of siblings.

16. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 14, wherein a flag in the flags field identifies the type of the node data.

17. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the relationship of the nodes to the other nodes in the virtual node tree is indicated by a child index and a sibling index in the data array.

18. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the data arrays have a fixed length.

19. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the data arrays have a variable length.

20. (Currently Amended) The ~~mobile phone apparatus~~ recited in claim 10, wherein the data arrays are stored in the memory of the mobile phone.

21. (Currently Amended) The method recited in claim 1, wherein the data arrays are stored in memory on the ~~mobile terminal~~ apparatus.

22. (New) A computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program code portions being configured to carry out a method of representing a document written in a markup language and rendering the document on a display, said method comprising:

providing a virtual node tree describing the structure of the data types in the document but not containing actual document data, each one of the nodes in the virtual node tree respectively corresponding to one element of a specific data type in the document;

for each one of the nodes in the virtual node tree, providing a data array including information identifying the relationship of the node to other nodes in the virtual node tree and a reference to the location of the data corresponding to the node; and

obtaining the data corresponding to the nodes using the references included in the data array.

23. (New) The computer-readable storage medium recited in claim 22, wherein the data arrays further include a flags field, a flag in the flags field indicating whether or not the node is the last sibling in a list of siblings.

24. (New) The computer-readable storage medium recited in claim 22, wherein the data arrays further include a flags field, a flag in the flags field identifying the type of the node data.

25. (New) The computer-readable storage medium recited in claim 22, wherein the relationship of the nodes to the other nodes in the virtual node tree is indicated by a child index and a sibling index in the data array.

26. (New) An apparatus for representing a document written in a markup language and rendering the document on a display, said apparatus comprising:

means for providing a virtual node tree describing the structure of the data types in the document but not containing actual document data, each one of the nodes in the virtual node tree respectively corresponding to one element of a specific data type in the document;

for each one of the nodes in the virtual node tree, means for providing a data array including information identifying the relationship of the node to other nodes in the virtual node tree and a reference to the location of the data corresponding to the node; and

means for obtaining the data corresponding to the nodes using the references included in the data array.

27. (New) The apparatus recited in claim 26, wherein the data arrays further include a flags field, a flag in the flags field indicating whether or not the node is the last sibling in a list of siblings.

28. (New) The apparatus recited in claim 26, wherein the data arrays further include a flags field, a flag in the flags field identifying the type of the node data.

29. (New) The apparatus recited in claim 26, wherein the relationship of the nodes to the other nodes in the virtual node tree is indicated by a child index and a sibling index in the data array.